

JOGOS PARA O SEU MICROCOMPUTADOR

AGORA
16
PÁGINAS



ENVIE-NOS OS SEUS PROGRAMAS ORIGINAIS E GANHE PRÊMIOS

Colabore connosco, enviando-nos o seu programa original, do seguinte modo:

1. Nome, morada, idade e n.º de telefone.
2. O programa de preferência em cassette, indicando o tipo e a capacidade do computador.
3. Uma descrição geral do jogo com as instruções necessárias.
4. Uma explicação detalhada da função das várias partes do programa.

Para: JOGOS SORTIDOS - Rua Duque de Palmela, 37, 2.º-Dto. - 1200 LISBOA

Jogo de dados

Esta é a versão para computador de um jogo de dados familiar, bem conhecido. É, de facto, um jogo pacato, sem margem para apostas.

Os dados têm, em cada face, letras em vez dos habituais números. Quando ficam em descanso, depois de rodopiarem, você terá que fazer o máximo de palavras possíveis a partir das letras que lhe ficam perto.

As instruções estão incluídas no programa. Quando teclar o jogo deparará com coisas tais como «(2*G8)». Isto quer dizer que deve introduzir 2 símbolos gráficos (G) da chave 8 (8-key). Também, «(2*sp)», o que significa que deve introduzir dois espaços (sp). É fácil, não é?

```
0>REM Written by D.L.WEBSTER
20 DIM b(16): DIM b$(16,1)
30 OVER 0: LET e=0: LET sc=0:
LET z=0
40 GO SUB 1030
50 GO SUB 1400
60 GO SUB 100: CLS
70 GO SUB 590
80 GO SUB 460
90 GO TO 230
100 IF sc=10 THEN GO TO 1440
110 FOR z=1 TO 16
120 LET a=INT (RND*16+1)
130 LET b(z)=a
140 FOR y=1 TO z-1
150 IF a=b(y) THEN GO TO 120
160 NEXT y
170 RESTORE (a*10)+1520
180 READ a$
190 LET c=INT (RND*6+1)
200 LET b$(z)=a$(c)
210 NEXT z: LET sc=sc+1
220 RETURN
230 BEEP .1,10: PRINT AT 21,0;"
PRESS ANY KEY TO START
": PAUSE 0
240 PRINT PAPER 5;AT 21,0;"(33
*sp)"
250 LET d=0
260 BEEP .1,10
270 FOR l=4 TO 16 STEP 4
280 FOR r=4 TO 16 STEP 4
290 PRINT AT l-1,r-1;"(3*G8)"
300 PRINT AT l,r-1;"(G8,sp,G8)"
310 PRINT AT l+1,r-1;"(3*G8)"
320 LET d=d+1
330 INVERSE 1
340 IF b$(d)="Q" THEN PRINT AT
l,r;"Qu": GO TO 360
350 PRINT AT l,r;b$(d)
360 INVERSE 0
370 NEXT r: NEXT l
380 IF e=1 THEN LET e=0: GO TO
970
390 GO SUB 790
```

```
400 FOR l=4 TO 16 STEP 4
410 FOR r=4 TO 16 STEP 4
420 PRINT AT l,r;"(2*G8)"
430 NEXT r: NEXT l
440 GO SUB 930
450 GO TO 230
460 FOR l=27 TO 155 STEP 32
470 LET r=20
480 INK 2
490 PLOT r,1: DRAW 128,0
500 PLOT r,1+1: DRAW 128,0
510 NEXT l
520 FOR r=19 TO 147 STEP 32
530 LET l=27
540 PLOT r,1: DRAW 0,129
550 PLOT r+1,1: DRAW 0,129
560 NEXT r
570 INK 0
580 RETURN
590 FOR l=2 TO 18
600 PRINT PAPER 6;AT l,2;"(17*
sp)"
610 NEXT l
620 FOR l=2 TO 18
630 PRINT PAPER 6;AT l,21;"(10
*sp)"
640 NEXT l
650 PRINT PAPER 0; INK 7;AT 2,
29;" ";AT 2,21;"ROUND: ";sc
660 PRINT PAPER 0; INK 7;AT 18
,21;"TIME LEFT"
670 PRINT PAPER 0; INK 7;AT 4,
24;"MAX"
680 PRINT PAPER 0; INK 7;AT 16
,24;"MIN"
690 FOR l=48 TO 71
700 INK 2
710 PLOT 192,1: DRAW 23,0
720 NEXT l
730 FOR l=72 TO 135
740 INK 4
750 PLOT 192,1: DRAW 23,0
760 NEXT l
770 PAPER 7: INK 0
780 RETURN
790 OVER 1: INK 4
800 FOR l=135 TO 72 STEP -1
810 PAUSE 50
820 PLOT 192,1: DRAW 23,0
830 NEXT l
840 FOR l=71 TO 48 STEP -1
850 PAUSE 30
860 INK 2
870 PLOT 192,1: DRAW 23,0
880 BEEP .005,80-1
890 NEXT l
900 INK 0
910 OVER 0
```

JOGO DE DADOS

```

920 RETURN
930 PRINT AT 21,0;" PRESS AN
Y KEY TO REVEAL ": PAUSE 0
940 PRINT PAPER 5;AT 21,0;"(33
*sp)"
950 LET d=0
960 LET e=1: GO TO 250
970 GO SUB 100
980 PRINT AT 21,0;" PRESS ANY
KEY FOR NEW ROUND "
982 PRINT );" PRESS (H) FOR H
OW TO SCORE "
984 LET z$=INKEY$
985 IF z$="" THEN GO TO 984
986 IF z$="h" THEN LET z=1: CL
S : GO SUB 1300
988 CLS
990 BEEP .1,10
1000 PRINT PAPER 5;AT 21,0;"(33
*sp)"
1010 IF sc>1 THEN GO SUB 590: G
O SUB 460
1020 RETURN
1030 LET c$="BOGGLE A WORD GAME
FROM WEBCAN"
1040 BORDER 1: PAPER 5: INK 0: C
LS
1050 LET g=0
1060 LET g=g+1
1070 FOR I=21 TO 2 STEP -1
1080 PRINT PAPER 6;AT 1,g;c$(g)
1090 IF I=2 THEN GO TO 1120
1100 BEEP .005,1
1110 PRINT AT 1,g;" "
1120 NEXT I
1130 IF g=30 THEN GO TO 1150
1140 GO TO 1060
1150 PRINT
1160 PRINT " This word game is f
or two or more players."
1170 PRINT
1180 PRINT " The object of the g
ame is to write down as many
different words as possible.
And there must be a minimum o
f four letters to score po
ints."
1190 PRINT
1200 PRINT " Each letter on the
4x4 grid can only be used on
ce, in each word, and each lett
er no matter what directi
on must follow on to form t
he word. The bigger the word
the more points you get."
1210 LET c$="PRESS ANY KEY"
1220 PRINT AT 21,9;" ";
1230 FOR I=1 TO LEN c$
1240 PRINT PAPER 6;c$(I);
1250 PAUSE 10
1260 BEEP .005,10

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1270 NEXT I
1280 PAUSE 0: CLS
1290 PRINT : PRINT ; "Each game c
onsist of ten rounds.And you hav
e 80 seconds to writedown your w
ords."
1300 PRINT PAPER 6;AT 5,10;"HOW
TO SCORE"
1310 PRINT PAPER 6;AT 7,4;"4 Le
tters = 1 Point. "
1320 PRINT PAPER 6;AT 9,4;"5 Le
tters = 2 Points."
1330 PRINT PAPER 6;AT 11,4;"6 L
etters = 3 Points."
1340 PRINT PAPER 6;AT 13,4;"7 L
etters = 5 Points."
1350 PRINT PAPER 6;AT 15,4;"8 L
etters = 9 Points."
1360 PRINT AT 17,0;"You only get
points for words your opponen
ts hasn't got."
1370 PRINT AT 21,0;" PRESS ANY K
EY, AND GOOD LUCK!": PAUSE 0
1375 IF z=1 THEN LET z=0: RETUR
N
1380 CLS : INK 7
1390 RETURN
1400 PRINT INK 0; PAPER 6: FLAS
H 1;AT 9,1;"(32*sp)"
1410 PRINT INK 0; PAPER 6: FLAS
H 1;AT 10,1;" COMPUTER THINKING
PLEASE WAIT"
1430 RETURN
1440 PRINT AT 21,0; FLASH 1;"
**** GAME OVER **** "
1450 PRINT PAPER 1; INK 7;);0;"P
RESS (Y) FOR NEW GAME/(N) QUIT"
1460 LET z$=INKEY$
1470 IF z$="" THEN GO TO 1460
1480 IF z$="n" THEN NEW
1490 IF z$="y" THEN GO TO 1510
1500 GO TO 1460
1510 CLEAR
1520 GO TO 20
1530 DATA "SRLACE"
1540 DATA "UPSTLE"
1550 DATA "SDOWNE"
1560 DATA "NESPIH"
1570 DATA "BMAJQO"
1580 DATA "MHOSRA"
1590 DATA "LYEKGU"
1600 DATA "NEVDAZ"
1610 DATA "BYITAL"
1620 DATA "TAOCIA"
1630 DATA "GILRUW"
1640 DATA "MPEDCA"
1650 DATA "IOXBFR"
1660 DATA "HIEFEY"
1670 DATA "TGENIV"
1680 DATA "NOUTDK"

```

As bolhas

Inacreditável! Nunca visto! Nunca imaginámos que seria possível! Mas aconteceu...

Um jogo em que as bolhas fazem cócegas na sua imaginação e elevam as suas habilidades a píncaros inimagináveis!

Quem o conseguir fazer tem mesmo que ser bom.

Todas as instruções estão contidas no programa.

A «bolha inesquecível»!

Basic Loader

Este é o programa básico que tratará o código máquina após a introdução.

Introduza-o e faça SAVE «BUBBLE» LINE 1.

Já está?! Meu Deus, como é fácil!

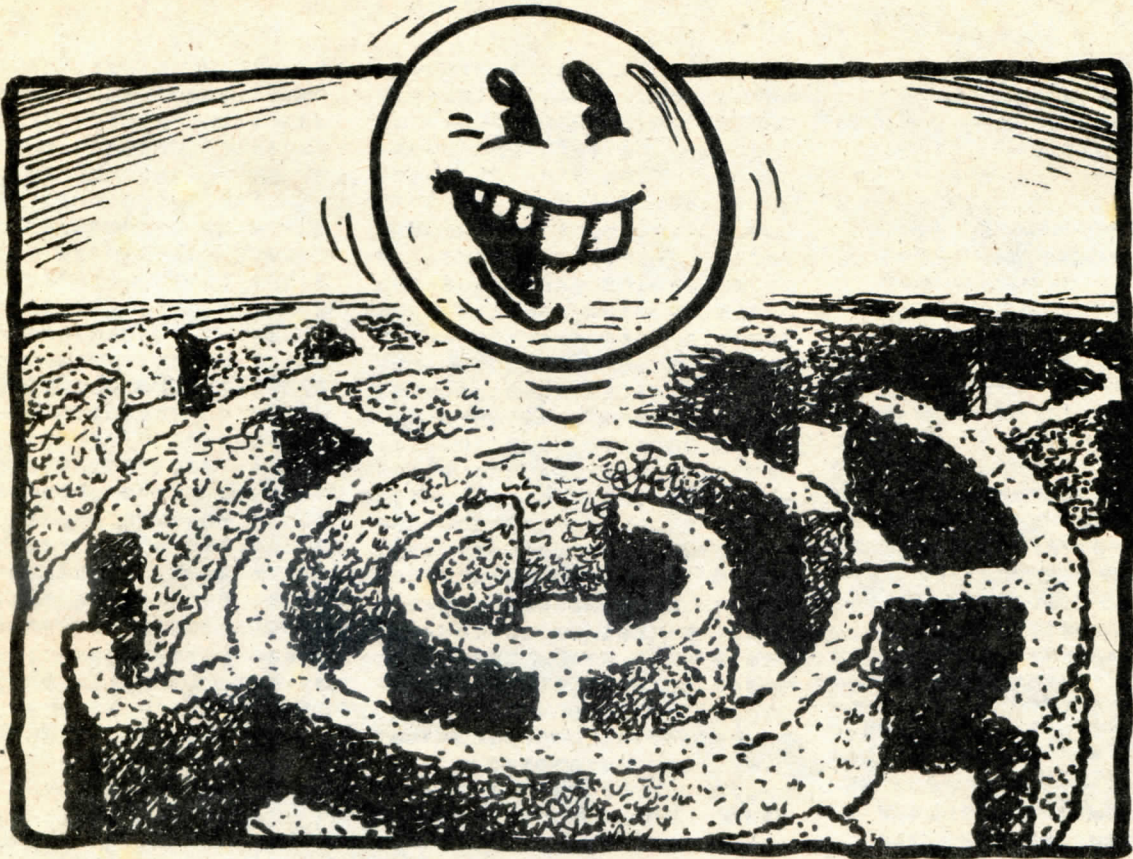
```
10 BORDER 0: PAPER 0: INK 0: C
LS : PRINT AT 6,9: INK 7: BRIGHT
1: "BUBBLE TROUBLE": AT 10,11: IN
K 7: BRIGHT 1: "IS LOADING": AT 14
,10: INVERSE 1: "PLEASE WAIT.": L
OAD ""CODE : LET a=USR 37087
```

Hex Dump

Cá está ele! Introduza-o no General Hex Loader que se encontra muito perto daqui e conserve o código fazendo SAVE «TROUBLE» CODE 30000,7140.

O jogo está pronto e apto a «torrar» as suas células cerebrais, no caso de ainda dispor de algumas.

```
30000: 0000000000001071F=39
30008: 0001071F7FFFFFFF=931
30015: 0080E0F8FEFFFFFF=1519
30024: 000000000080E0F8=500
30032: 7F5F67797E7F7F7F=953
30040: FFFFFFFF7F9FE7F9=1785
30048: FFFFFFFF7F9E58A=1889
30056: FEF8E48A54A854A8=1378
30064: 7F7F7F7F7F7F7F7F=1016
30072: FEF8E48A54A854A8=2032
30080: 55A854A854A854A8=1020
30088: 54A854A854A854A8=1014
30096: 1F07010000000000=39
30104: FEF8E48A54A854A8=925
30112: 55A854A854A854A8=599
30120: 4080000000000000=192
30128: FFFFFFFF7F9E080=1874
30136: FEF8E08000000000=854
30144: 7F1F070100000000=155
30152: FFFFFFFF7F1F0701=1185
30160: 0000000000000000=0
30168: 0000000000000000=0
30176: 0000000000000000=0
30184: 0000000000000000=0
30192: 0000000000000000=0
30200: 0000000000000000=0
30208: 0000000000000000=0
30216: 0000000000000103=4
30224: 80E0F8FEFFFFFF=1874
30232: 0000000000E0F8FE=654
30240: 00000103173F7FFF=472
30248: 173F7FFFFFFF7FFF=1485
30256: 0000000000000000=0
30264: 0000000000000000=0
30272: 0000000000000000=0
30280: 0000000000000000=0
30288: 0000000000000000=0
30296: 000103070F1F3F7F=247
30304: 00008040A050A854=684
30312: 0000000000000000=0
30320: 000103070F1F3F7F=247
30328: FFFFFFFF7FFF7FFF=2040
30336: AA55AA55AA55AA55=1020
30344: 00008040A050A854=684
30352: 1F07010000000000=39
30360: FFFFFFFF7F1F070100=931
30368: AA55AA54A8408000=559
30376: A840800000000000=350
30384: FFFFFFFF7FFF7FFF=2040
30392: FFFFFFFF7FFF7FFF=2040
30400: FFFFFFFF7FFF7FFF=2040
30408: FFFFFFFF7FFF7FFF=2040
30416: FFFFFFFF7FFF7FFF=2040
30424: FEF8F8F0E0C08000=1538
30432: FF7F3F1F0F070301=502
30440: FFFFFFFF7FFF7FFF=2040
30448: FEF8F8F0E0C08000=1538
30456: 0000000000000000=0
30464: 0000000000000000=0
30472: FF7F3F1F0F070301=502
30480: 80E0F8FEFFFFFF=1874
30488: 0000000080E0F8FE=854
30496: 0000000103173F7F=217
30504: 03173F7FFFFFFF=1236
30512: 000000000001071F=39
30520: 0001071F7FFFFFFF=931
30528: 0080E0F8FEFFFFFF=1519
30536: 0000000080E0F8FE=496
30544: 7F5F67797E7F7F7F=953
30552: FFFFFFFF7E99E7F7=1777
30560: FEF9E79F7FFFFFFF=1785
30568: 70F8F8FCFCF8E488=1724
30576: 7F7F7F7F7F7F7F7F=1016
30584: F3FBF9FDFCFEFEFE=2010
30592: FEF8E58A55AA55AA=1379
30600: 54A854A854A854A8=1008
30608: 1F07010000000000=39
30616: FEF8E48A54A854A8=925
30624: 55A854A840800000=599
30632: 4080000000000000=192
30640: FFFFFFFF7F9E080=1874
30648: FEF8E08000000000=854
30656: 7F1F070100000000=155
30664: FFFFFFFF7F1F0701=1200
30672: 0000000000000000=0
30680: 0000000000000000=0
30688: 0000000000000000=0
30696: 0703030101030103=22
30704: 0000000000000000=0
30712: 0000000000000000=0
30720: 0000000000000000=0
30728: 0103010301030103=16
30736: 80E0F8FEFFFFFF=1874
30744: 0000000080E0F8FE=854
30752: 00000103173F7FFF=472
30760: 173F7FFFFFFF7FFF=1485
30768: 0000000000010709=17
30776: 0001071F7FFFFFFF=931
30784: 0080E0F8FEFFFFFF=1519
30792: 000000000080E0F8=600
30800: 0E1F1F3F3F5F6779=521
30808: 7F9FE7F9FEFFFFFF=1785
30816: FFFFFFFF7E98E5EA=1761
30824: FCF8E48854A854A8=1368
30832: 7E7F7F7F7F7F7F7F=1015
30840: 7F9FE7F9FEFEFEFE=1782
30848: D5CA95AA55AA55AA=1244
30856: 54A854A854A854A8=1008
30864: 1F07010000000000=39
30872: FEF8E48A54A854A8=925
30880: 55A854A840800000=599
30888: 4080000000000000=192
30896: FFFFFFFF7F9E080=1986
30904: FEF8E08000000000=854
30912: 7F1F070100000000=155
30920: FFFFFFFF7F1F0701=1185
30928: E0C0C08080000000=854
30936: 0000000000000000=0
30944: 0000000000000000=0
30952: 0101010101010101=8
30960: 0000000000000000=0
30968: 0000000000000000=0
30976: 0000000000000000=0
30984: 0101010101010103=10
30992: 80E0F8FEFFFFFF=1874
31000: 0000000080E0FCFE=858
31008: 00000103173F7FFF=472
31016: 173F7FFFFFFF7FFF=1485
31024: 0000000000000000=0
31032: 0000000000000000=0
31040: 0000000000000000=0
31048: 0000000000000000=0
31056: 0000000001010111=49
31064: 0010101010101010=140
31072: 008080808081698D8=424
31080: 0000000000008088=152
31088: 111919191E68797E=473
31096: 9FB7EB8AAC9C96D=1355
31104: F9DDAFADAA2B2B35=1128
31112: 8888888888888888=1194
31120: 1F07010000000000=39
31128: 9DE7F97E1F070100=802
31136: B9E79F7EF8E08000=1301
31144: F8E0800000000000=600
31152: FFFFFFFF7FFF7FFF=2040
31160: FFFFFFFF7FFF7FFF=2040
31168: FFFFFFFF7FFF7FFF=2040
31176: FFFFFFFF7FFF7FFF=2040
31184: FFFFFFFF7FC7C6C4=1852
31192: EFC7C7C7C2C0840=1485
31200: F7E3E3E3E3430302=1227
31208: FFFFFFFF7E36323=1628
```



31216: 00000000000000000000=896
 31224: 00000000000000000000=0
 31232: 00000000000000000000=0
 31240: 2303030301000000=45
 31248: 80E0F8FEFFFFFFF=1874
 31256: 0000000080E0F8FE=854
 31264: 0000000001071F7F=166
 31272: 01071F7FFFFFFF=1186
 31280: 000000000001071F=39
 31288: 0001071F7F7EF8E0=764
 31296: 0080E0F8FE7F1F07=1019
 31304: 000000000080E0F8=600
 31312: 7F5F67797E7F7F7F=953
 31320: 80E0F8FE7F9FE7F9=1620
 31328: 01071F7FFEF8E58A=1035
 31336: FEF8E48A54AA54AA=1378
 31344: 7F7F7F7F7F7F7F7F=1016
 31352: FEF8E48A54AA54AA=2032
 31360: 55AA55AA55AA55AA=1020
 31368: 54AA54AA54AA54AA=1014
 31376: 1F07010000000000=39
 31384: FEF8E48A54AA54AA=925
 31392: 55AA54AA54AA54AA=599
 31400: 4050000000000000=192
 31408: FFFFFFFF8E0000=1874
 31416: FEF8E00000000000=854
 31424: 7F1F070100000000=166
 31432: FFFFFFFF7F1F0701=1186
 31440: 0000000000000000=0
 31448: 0000000000000000=0
 31456: 0000000000000000=0
 31464: 0000000000000000=0
 31472: 0000000000000000=0
 31480: 0000000000000000=0
 31488: 0000000000000000=0
 31496: 0000000000000103=4
 31504: 80E0F8FEFFFFFFF=1874

31512: 0000000080E0F8FE=854
 31520: 00000103173F7FFF=472
 31528: 173F7FFFFFFF=1488
 31536: 0000000000000000=0
 31544: 0000000000000000=0
 31552: 0000070000000000=7
 31560: 0000E00000000000=224
 31568: 0000000000000000=0
 31576: 0101011F3C70E0C0=622
 31584: C18387F81C0E0F1F=795
 31592: FFFFFFF000000000=765
 31600: 8080800101010000=387
 31608: 0000008787CFFFFFF=987
 31616: 7F3F1FFFFFFF=1496
 31624: FEF8E48A54AA54AA=1136
 31632: 0000000000000000=0
 31640: 0000000700000000=7
 31648: 000000E000000000=224
 31656: 0000000000000000=0
 31664: 000000FFFFFFF=1275
 31672: FFFFFFFF=2040
 31680: FFF8E0FFFFFFF=2002
 31688: FF1F07FFFFFFF=1568
 31696: FFFFFFFF8E0000=2036
 31704: FCFCFC00000000=1076
 31712: 0000000010000000=4
 31720: 000000FFFFFF7F7F=1019
 31728: 3F3F3FFCFCFCFEFE=1453
 31736: FFFFFFF000000000=765
 31744: 0080C00000000000=320
 31752: 0001033F3F3F7F7F=447
 31760: FFFFFFFF=2040
 31768: FFFFFFF0F8E00000=2002
 31776: FFFFFFF071FFFFFF=1568
 31784: FFFFFFFF=2040
 31792: FFFFFFF000000000=765

31800: 0000000000000000=0
 31808: 0000000000000000=0
 31816: 0000000000000000=0
 31824: 0000000000000000=0
 31832: 010101071F78E0C0=577
 31840: C08163E0F83E1F1F=1048
 31848: 3FFFFFF000000000=573
 31856: 8000000101010000=387
 31864: 0000006787CFFFFFF=987
 31872: 7F3F07FFFFFFF=1472
 31880: FEF8E08080800000=1110
 31888: 0000000000000000=0
 31896: 0000000000000000=0
 31904: 0000000000000000=0
 31912: 0000000000000000=0
 31920: 000000FFFFFFF=1275
 31928: FFFFFFFF=2040
 31936: FFFFFFF8FFFFFFF=2033
 31944: FFFF1FFFFFFF=1616
 31952: FFFFFFFF8E0000=2036
 31960: FCFCFC00000000=1106
 31968: 0000000701000000=8
 31976: 000000FFFF7F7F7F=891
 31984: 3F3F3FFCFCFCFEFE=1453
 31992: FFFFFFF000000000=765
 32000: 0080E00000000000=352
 32008: 0001033F3F3F7F7F=447
 32016: FFFFFFFF=2040
 32024: FFFFFFF8FFFFFFF=2033
 32032: FFFFFFF3FFFFFFF=1848
 32040: FFFFFFFF=2040
 32048: FFFFFFF000000000=765
 32056: 0000000000000000=0
 32064: 0000000000000000=0
 32072: 0000000000000000=0
 32080: 0000000000000000=0

AS BOLHAS

32088: 000000000000000000=0
32096: 0000070000000000=7
32104: 0000E00000000000=224
32112: 0000000000000000=0
32120: 0000001F3C307060=347
32128: E0C1C3F83C1C1E3E=1040
32136: FFFFFFF00000000000=765
32144: 0000000000000000=0
32152: 0000000000000000=0
32160: 0000000000000000=0
32168: 0000000000000000=0
32176: 000000FFFFFFFFFFFF=1275
32184: FFFFFFFFFFFFFFFFFF=2040
32192: FFFFFFFFFFFFFFFFFF=2040
32200: FFFFFFFFFFFFFFFFFF=2040
32208: FFFFFFFFFFFFFFFFFF=2040
32216: FFFFFFFFFFFFFFFFFF=2040
32224: FFF8E0FFFFFFFFFFFF=2002
32232: FF1F07FFFFFFFFFFFF=1568
32240: FFFFFFFF0000000000=2040
32248: FEFEFE0808080808=1210
32256: 0000000301010000=5
32264: 000000FFFFFFFFFFFF=1275
32272: 7F7F7FFFFFFFFFFFFF=1656
32280: FFFFFFFFFFFFFFFFFF=2040
32288: FFFFFFFFFFFFFFFFFF=2040
32296: FFFFFFFFFFFFFFFFFF=2040
32304: FFFFFFF00000000000=765
32312: 0000000000000000=0
32320: 0000000000000000=0
32328: 0000000000000000=0
32336: 0000000000000000=0
32344: 000000C3C3C3677F=815
32352: 3F3F1FFFFFFFFFEFE=1430
32360: FCFCF80000000000=782
32368: 0000000000000000=0
32376: 0000000700000000=7
32384: 000000E000000000=224
32392: 0000000000000000=0
32400: 0000000000000000=0
32408: 0000000000000000=0
32416: 0000000000000000=0
32424: 0000000000000000=0
32432: 000000FFFFFFFFFFFF=1275
32440: FFFFFFFFFFFFFFFFFF=2040
32448: FFFFFFFFFFFFFFFFFF=2040
32456: FFFFFFFFFFFFFFFFFF=2040
32464: FFFFFFFFFFFFFFFFFF=2040
32472: FEFEFE0000000000=762
32480: 0000C00000000000=448
32488: 0101037F7F7FFFFFFF=596
32496: FFFFFFFFFFFFFFFFFF=2040
32504: FFFFFFFE0F0FFFFFFF=2002
32512: FFFFFFF070FFFFFFF=1552
32520: FFFFFFFFFFFFFFFFFF=2040
32528: FFFFFFFFFFFFFFFFFF=2040
32536: FFFFFFFFFFFFFFFFFF=2040
32544: FFFFFFFFFFFFFFFFFF=2040
32552: FFFFFFFFFFFFFFFFFF=2040
32560: FFFFFFFF5C5D5E52A=1691
32568: 7C88E5DD360B001A=807
32576: FEFF2825CD797F13=1058
32584: 1AD511B075FE0028=843
32592: 0C010001E5EBED4A=789
32600: EB3D20F9E1D5C0CB=1423
32608: 7FD1D1CD10801318=937
32616: D6210C0011004001=521
32624: 0010EDB0E1D1C1F1=1297
32632: C9F5C218EC81AFE=1298
32640: 00281347C5011E00=356
32648: A7ED42CB4428047C=909
32656: D60767C110EE131A=816
32664: FE00281347C50122=616
32672: 00A7ED42CB442804=785
32680: 7CD60767C110EE13=914
32688: 1AFE00281347C501=608
32696: 4000A7ED42CB4428=846
32704: 047CD60767C110EE=899
32712: C1F1C9F5C5D5E5E5=1754
32720: 0E04C5D5E504F5D5=952
32728: 06081AA6E5D51180=793
32736: 00ED52B6D1E11214=973
32744: 2310EFD1F1133D20=852
32752: E5D1C1A7E5EB1120=1311
32760: 00ED5ACB442806F5=889
32768: 70C60767F1EBE10D=1146
32776: 20C8EBE1D1C1F1C9=1536
32784: F5C5D5E51B1B1BDD=1186
32792: 219D80DD7E0BFE00=930
32800: 20721ADD8E002070=727
32808: 131ADD8E01206913=613
32816: 1ADD8E023062DD7E=932
32824: 04FE012007DD7E05=650
32832: FE002031DD7E03FE=939
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32864: 119D80CD797F11B3=951
32872: 7CCDC67FDD360300=937
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32888: CD797F11B37DCDCB=1182
32896: 7F119D80DD3502CD=910
32904: 797F11B37ECDCB7F=1105
32912: DD360500DD360B01=567
32920: E1D1C1F1C9030503=1080
32928: 0000000200050000=7
32936: 0000F5C5D5E5DD21=1138
32944: 9D802A7C887EFFFF=1222
32952: 2823DD8E00280623=567
32960: 23232318F0237EDD=751
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32976: E4237E3CDD8E0228=902
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33000: 237EFE042808FE05=729
33008: 201E0D360901C3F0=762
33016: 82DD360400DD360C=696
33024: 01DD7E06FE01C2F0=1045
33032: 82DD360A01C3F062=981
33040: DD360400DD360500=559
33048: 2A7C88DD7E06FE01=910
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33080: 01280523232318E2=401
33088: 237EDDBE02CAE081=1129
33096: 232318D6DD7E06FE=915
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33168: 062323232318EE23=443
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33224: 7E3DDDBE01280523=679
33232: 232318E2237EDDBE=892
33240: 02CAE081232318D6=865
33248: 237EFE0428013DD3=745
33256: 0C01DD7E06FE01C2=817
33264: F082DD360A01C3F0=1091
33272: 82DD3607011804DD=662
33280: 360700DD7E07FE01=670
33288: 2007DD7E06FE0128=667
33296: 0F3EDFDBFEE60120=1036
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33320: 7E06FE02280F3EFD=758
33328: DBFEE6022007DD36=1019
33336: 0602C3F082DD7E07=927
33344: FE012007DD7E06FE=901
33352: 03280F3EBFDBFEE6=1014
33360: 042007DD360503C3=522
33368: F082DD7E07FE0120=1011
33376: 08DD7E06FE04CAF0=1061
33384: 823EF5DBFEE60120=1179
33392: 07DD360504C3F082=857
33400: DD7E06FE012015DD=862
33408: 7E07FE01CAF082DD=1181
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33424: 00C3F082DD7E06FE=1172
33432: 02201CDD7E07FE01=671
33440: CAF082DD3501DD7E=1194
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33464: 7E06FE03201ADD7E=794
33472: 07FE01282BDD3500=619
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33488: CEE87CDF5821818=1205
33496: DD7E06FE042011DD=881
33504: 7E07FE01280ADD7E=785
33512: 01FE052803DD3401=577
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33608: 0000000000000000=0
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33664: 0202FE00FE8080FE=1022
33672: 8282FE00FE020202=774
33680: 020202007C4444FE=520
33688: 8282FE00FE8282FE=1282
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33736: C0C0FE00FE8080F8=1396
33744: C0C0C000888888FE=1238
33752: C2C2C200828282FE=1226
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33768: 18181800808080C0=648
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AS BOLHAS

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33872: FFFFFFFF00000000=1020
33880: 00C0F0FC33CC0300=942
33888: 00000000FFFF3FCF=780
33896: 330C0300FFFC3CC=1020
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33920: FFFFFFFF00000000=2040
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33936: 0C030000FFFFFFFC3=1020
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34048: FFFFAA55071C3060=944
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34168: 21114811D484CD0A=698
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34208: 21B44011A3883E01=656
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34240: 8621E75906133607=573
34248: 2310FB21E74811A6=821
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34448: C5D5E5060A21555A=863
34456: 36072310FB060A21=412
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34472: 55501104850605C5=527
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34488: C5E506081A771324=640
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34528: D07E08FE05281E47=755
34536: 3E0590215D5A111F=475
34544: 00E53605233605A7=549
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34560: 2B2B3D20ECE1D1C1=1042
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34624: CB2FCB2FC6586736=943
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34640: 1E00A7ED5A360423=617
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34664: 052310FB21615A06=533
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34688: 8621615011D7883E=774
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34704: E521495A06043605=494
34712: 2310FB212495011DE=727
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34760: 1ABE2803D0180413=514
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34784: DF887EFE09280234=842
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34808: 01001B3600EDB021=528
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34824: 217E88A7ED5A05E23=918
34832: 56EBE57ECB7F201B=1065
34840: 214F5011A484CD0A=720
34848: 87DD219D80DD3600=949
34856: 05DD360103DD3602=561
34864: 031819214F5011D4=473
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34888: DD360203E1E57EE6=1090
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34928: CD8D87E1D1C1F109=1550
34936: 03050300ED88EC88=762
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34960: A68EFC8E0B19080B=760
34968: 130E1D1C1715190B=170
34976: 130E1B1518101617=167
34984: 0E18181D0E141C0E=167
34992: 171D1C151D16130A=161
35000: 1A1810120D18150F=157
35008: 1C1D18150F1C1815=190
35016: 13120D1D030D1D13=143
35024: 1C0D180C15170E11=152
35032: 12180C15170E0000=112
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35056: 0000000000000000=0
35064: 0002000000000000=2
35072: 0080000000000000=128
35080: 0000000000000000=0
35088: 0001153810400080=286
35096: 0104681C0802048E=293
35104: 2470000000000000=148
35112: 0080000001000000=129
35120: 00008002489D2872=513
35128: 250EFA77AAC0952E=977
35136: 7420000000000000=148
35144: 0000000000000000=0
35152: 0000040000000000=4
35160: 0000800000000000=128
35168: 0000000000000000=0
35176: 0000FFFFFFFFFFFF=1530
35184: FFFFFFFFFFFFFFFFFF=2040
35192: FDE8FFFFFFFFFFFF=2015
35200: 7F17FFFFFFFFFFFF=1680
35208: FFFFFFFFFFFFFFFFFF=2039
35216: FEFC080800000000=954
35224: 0000030101000100=6
35232: 0000FFFFFFFFFFFF=1530
35240: 7F3FFEFEFCEFFFFF=1714
35248: FFFF000000000000=510
35256: 80C0000000000000=320
35264: 010B7F7FFFFFF7FFF=1158
35272: FFFFFFFFFFFFFFFFFF=2040
35280: FFFF0FBFFFFFFFFF=2021
35288: FFFF1F7FFFFFFFFF=1688
35296: FFFFFFFFFFFFFFFFFF=2040
35304: FFFF000000000000=510
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35328: 0040000000000000=64
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35352: 8002200804010A54=269
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35384: 0A1471RADDE8D284=1108
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35440: FFFFFFFFFFFFFFFFFF=2040
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35456: BF1FFFFFFFFFFFFFFFF=1752
35464: FFFFFFFFFFEFEFC=2035

AS BOLHAS

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35496: 7FFFFFFCFEFCFEFFFF=1906
35504: FFFF00000000000000=638
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35544: FFFF0F8FFFFFFFFFF=1736
35552: FFFFFFFFFFFFFFFFFF=2040
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35640: 0410200100C09044=593
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35664: 000001000000000000=1
35672: 000000000000000000=0
35680: 000000000000000000=0
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35712: 7F3FFFFFFFFFFFFFFF=1720
35720: FFFFFFFFFFFFFFFFFF=2040
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35768: 61C28E5422070101=560
35776: 9B8FFF7FFFFFFFFF=1700
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35808: FFFFFFFFFFFFFFFFFF=2040
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36176: 0003050200020500=17
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36224: 0003010004050000=13
36232: 0404000000030000=11
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36248: 0502000205020301=20
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36264: 0401040204010401=21
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36280: 0300040103000400=15
36288: 030004FF02050400=273
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36376: 0301040203000001=14
36384: 0300040402000403=20
36392: 0200000202000001=7
36400: 0200040401000403=18
36408: 0100000201000404=12
36416: 0000040300000202=11
36424: 000004FF83040500=399
36432: 0403050201020502=24
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36624: 0004020200040100=13
36632: 0403030004030202=21
36640: 0303010004020200=15
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36656: 00000000DD7E0CFE=613
36664: 00C821C18F113680=768
36672: 010500ED8021CD8F=801
36680: 0603C5E5CD337FE1=1043
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36720: 80010500ED802A7C=714
36728: 882BCB7E2805DD36=828
36736: 0602C9DD360603C9=694
36744: 3ACD8FFE01200D11=723
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36760: CDCB7FC9FE02200D=1037
36768: 119D80CD797F116A=878
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36784: 0D119D80CD797F11=785
36792: 6A8BCDCB7FC97678=1217
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36816: 0D360A0021004011=399
36824: 01400100103600ED=373
36832: B021EB58060A3647=673
36840: 2310FB3E0921EC40=706
36848: 112090CD638621EB=899
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36864: ED40113190CD1790=883
36872: 21F240113990CD17=785
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36888: 081A77132410FAC9=675
36896: 0A1D0E1D1D151D0E=175
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36912: 00FE9292D2C2C2C2=1338
36920: 0082828282442810=644
36928: 0000DD3609002100=317
36936: 4011014001001036=217
36944: 00EDB0218858060F=691
36952: 36452310FB21E758=777
36960: 061236452310FB21=482
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36976: FB21884011B3903E=886
36984: 0FCD638621E74011=798
36992: C2903E12CD638621=889
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37008: 6386218B40112990=671
37016: CD179021ED401139=780
37024: 90CD179005FF21F2=1052
37032: 40113190CD179076=764
37040: 10FDC90C15141D17=575
37048: 0A1C19130A1C1215=159
37056: 14181A15191D110A=172
37064: 1D0E1D0C151D1613=175
37072: 0E1C0E0D1C110E1D=157
37080: 0C151917180EF3CD=567
37088: 3485CD0691CD337F=924
37096: CD348FDD7E0AFE01=1012
37104: 2809DD7E09FE0128=700
37112: 0718E7CDD08F18DF=1065
37120: CD429018DAFB2100=941
37128: C01101C001001036=473
37136: 00ED80C900000000=514
STOP

Krakatoa



A ilha de Java está novamente ameaçada pelas turbulências um vulcão já histórico pelas suas erupções: o Krakatoa.

Uma importante expedição científica tinha ido estudar a ilha e subitamente vê-se surpreendida pela erupção. O mais grave é que um dos cientistas, o professor Volcanims Eruptus, se encontra numa situação extremamente perigosa, sendo indispensável a nossa rápida intervenção para o salvar do «monstro de fogo»

(denominação do vulcão muito usada na zona), antes que a elevada temperatura faça explodir o Krakatoa.

Vamos conseguir? Vamos tentar utilizando as seguintes teclas:

- O para a direita
- P para a esquerda
- Q para cima
- A para baixo

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1 PAPER 0: BORDER 0: CLS
2 PRINT INK 6, AT 11, 9; "FREE L
R. BINTA": GO SUB 9000
5 GO SUB 9060: GO SUB 8000: G
0 SUB 3000
10 FOR a=1 TO 20 STEP 2: PRINT
INK 1; PAPER 6; AT 1, a; "■"; AT 20
, a; "■": NEXT a
20 FOR a=2 TO 20 STEP 2: PRINT
INK 6; PAPER 1; AT 1, a; "■"; AT 20
, a; "■": NEXT a
30 FOR a=1 TO 20 STEP 2: PRINT
INK 6; PAPER 1; AT a, 1; "■"; AT a,
20; "■": NEXT a
40 FOR a=2 TO 20 STEP 2: PRINT
INK 1; PAPER 6; AT a, 1; "■"; AT a,
20; "■": NEXT a
42 PRINT INK 7; FLASH 1; AT 21,
2; "PULSE PARA EMPEZAR": PAUSE 0:
PRINT AT 21, 2; "
50 GO SUB 2600

```

```

100 LET vi2=24: LET vi=3: LET t
er=0: LET ter2=49: LET x=7: LET
y=0: LET pl=135: LET a$="AB": L
ET b$="CD": LET c$="AB": LET a=
9: LET b=14: LET c=530
110 IF INKEY$="p" THEN LET c$=b
$: LET c=500
120 IF INKEY$="o" THEN LET c$=a
$: LET c=510
130 IF INKEY$="q" THEN LET c=52
0
140 IF INKEY$="a" THEN LET c=53
0
142 FOR t=0 TO ve: NEXT t
145 LET ter=ter+1
146 IF ter=65 THEN LET ter2=ter
2+1: PLOT 212, ter2: DRAW INK 7, 4

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0: LET ter=0
147 IF ter2=89 THEN GO TO 4000
148 IF vi=0 THEN GO TO 4010
149 IF y+x=184 AND b=18 THEN GO
TO 5000

```

```

160 GO TO c
300 PRINT INK 4; AT b, a; c$; AT b+
1, a; "
310 IF ATTR (b-1, a)=2 OR ATTR (
b-1, a+2)=2 THEN GO TO 7000
311 GO TO 330
320 PRINT INK 4; AT b, a; c$; AT b-
1, a; "
325 IF ATTR (b, a+3)=2 OR ATTR (
b+1, a)=2 THEN GO TO 7000
330 IF ATTR (b, a)=2 OR ATTR (b,
a+2)=2 THEN GO TO 7000
340 IF b=19 THEN LET y=y+8: PLO
T 215, pl: DRAW OVER 1, 8, 0: LET p
l=pl-1: LET b=3: GO SUB 600
350 IF b=2 THEN LET y=y-8: PLOT
215, pl: DRAW OVER 1, 8, 0: LET pl
=pl+1: LET b=18: GO SUB 600
360 IF a>=18 THEN LET x=x+1: LE
T a=3: GO SUB 600
370 IF a=1 THEN LET x=x-1: LET
a=17: GO SUB 600

```

```

380 GO TO 110
500 PRINT INK 4; AT b, a; c$: LET
a=a+1: GO TO 330
510 PRINT INK 4; AT b, a; c$: LET
a=a-1: GO TO 330
520 LET b=b-1: GO TO 300
530 LET b=b+1: GO TO 320
600 PLOT 216, pl: DRAW INK 7, 7, 0
: FOR s=2 TO 19: PRINT AT s, 2; "
": NEXT s

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KRAKATOA

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605 RESTORE
610 FOR V=0 TO X+Y
620 READ H$
630 NEXT V
635 LET J=VAL H$
640 GO TO J*100+1000
650 DATA "6","10","2","4","0","7"
7 "5","16","8","14","0","7"
"13","11","12","6","9","6","2"
"1","3","5","1","1","6","11","10"
"9","6","11","9","3","8","9"
8 "2","8","0","7","6","0","9"
"6","7","6","0","12","1","4","10"
"9","1","1","5","1"
660 DATA "8","7","13","2","8"
"9","13","9","6","11","11","0","1"
0 "2","8","7","13","0","7","4"
"14","0","2","1","13","0","9","5"
"1","3","4","10","9","13","0","7"
"8","10","14","0","9","1","4","9"
0 "2","1","8","0","7","8","10"
670 DATA "5","1","4","10","9"
5 "6","8","9","1","1","5","1","4"
12 "8","7","1","9","1","8","7"
9 "13","0","12","6","2","1","13","0"
"7","1","13","12","1","6","10","9"
"6","11","9","4","3","1","3","11"
680 DATA "4","10","9"
"10","14","7","1","13","0","7"
"6","9","1","1","15","8","2","8"
"9","4","9","3"

```

```

1000 FOR Z=2 TO 5: PRINT INK 2; A
T Z,2; "": NEXT
Z
1010 PRINT INK 2; AT 6,2; "F"
"": AT 7,2; "FE"
"": AT 8,2; "FE"
"": AT 9,9; "E"
"": AT 10,10; "E"
"": AT 11,11; "EF"
1020 PRINT INK 2; AT 13,2; "": AT
13,16; "HG"
"": AT 14,2; "": AT 14,7
"HG"; AT 14,13; "HG"
"": AT 15,2; "G"
"": AT 16,2; "GH"
"": AT 16,2; "GH"
1030 FOR Z=17 TO 19: PRINT INK 2
; AT Z,2; "": NE
XT Z
1099 RETURN
1100 FOR Z=2 TO 19: PRINT INK 2;
AT Z,2; "": AT Z,16; "": NEX
T Z
1110 PRINT INK 2; AT 2,5; "": A
T 2,13; "": AT 3,5; "G"; AT 3,14
"": AT 4,5; "G"; AT 4,15; "E"; A
T 5,5; "": AT 5,15; "H"; AT 6,5;
"": AT 6,14; "H"; AT 7,5; "F"
"": AT 7,14; "E"; AT 8,5; "F"; AT 8,1
5; "E"; AT 9,5; "G"; AT 10,5; "F"; AT
10,15; "": AT 11,14; "H"; AT 12,5;
"G"; AT 12,13; "H"
1120 PRINT INK 2; AT 13,5; "G"; AT
13,13; "E"; AT 14,5; "G"; AT 14
14; "": AT 15,5; "E"; AT 15,13;
"": AT 16,5; "E"; AT 16,13; "E"
"": AT 17,5; "G"; AT 17,14; "E"; AT
18,5; "G"; AT 18,14; "H"; AT 19,5
"": AT 19,13; "H"
1199 RETURN
1200 FOR Z=2 TO 4: PRINT INK 2; A
T Z,2; "": NEXT
Z
1210 PRINT INK 2; AT 5,2; "
E"
"": AT 6,2; "E"
"": AT 6,12; "EF"
"": AT 7,2; "G"
"": AT 7,16; "H"
"": AT 8,2; "E"; AT 8
15; "H"
"": AT 9,15; "E"
"": AT 10,16; "E"
"": AT 11,17; "H"
"": AT 12
16; "H"
"": AT 13,2; "G"; AT 13,1
6; "E"

```

```

1220 PRINT INK 2; AT 14,2; "E"; A
T 14,16; "H"
"": AT 15,2; "HG"
"": AT 15,15; "H"
"": AT 16,2; "H"
"": AT 16,15; "E"
"": AT 17,2; "G"
"": AT 18,2; "G"
"": AT 19,2; "G"
1299 RETURN
1300 PRINT INK 2; AT 2,2; "
E"
"": AT 2,13; "": AT 3,2; "
E"; AT 3,16; "": AT 4,2; "
F"; AT 4,15; "H"; AT 5,2; "
F"; AT 5,15; "E"; AT 6,2; "
G"; AT 6,16; "E"; AT 7,2; "
G"; AT 7,17; "": AT 8,2; "
F"; A
T 8,16; "H"
1310 PRINT INK 2; AT 9,2; "F"; A
AT 9,15; "H"; AT 10,2; "": A
T 10,15; "E"; AT 11,2; "": A
T 11,16; "E"; AT 12,2; "G"; A
T 12,17; "E"; AT 13,2; "G"; A
T 13,18; "": AT 14,2; "F"; AT
14,14; "HG"
1320 PRINT INK 2; AT 15,2; "F"
; AT 15,14; "": AT 16,2; "F"
; AT 16,13; "H"; AT 17,2; "
G"; AT 17,9; "HG"
"": AT 18,2; "GH"
"": AT 19,2; "
1399 RETURN
1400 FOR Z=2 TO 4: PRINT INK 2; A
T Z,2; "": NEXT
Z
1410 PRINT INK 2; AT 5,2; "
FE"
"": AT 6,2; "FE"
"": AT 6,16; "": AT 7,2; "
": AT 7,16; "": AT 8,2; "
": AT 8
16; "E"; AT 9,2; "G"; AT 10,2;
"": AT 11,2; "E"; AT 12,2; "
E"; AT 13,2; "": AT 13,16; "H"
"; AT 14,2; "": AT 14,10; "HG"; AT 1
4,16; "
1420 PRINT INK 2; AT 15,2; "G"; A
T 15,9; "H"
"": AT 16,2; "
G"; AT 16,9; "H"
1430 FOR Z=17 TO 19: PRINT INK 2
; AT Z,2; "": NE
XT Z
1499 RETURN
1500 PRINT INK 2; AT 2,2; "
": AT 3,2; "
1510 PRINT INK 2; AT 4,2; "F"
; AT 4,11; "E"
"": AT 5,2; "G"
"": AT 5,12; "EF"
"": AT 6,2; "G"; AT 6,16; "H"; AT 7,2; "
F"; AT 7,16; "E"; AT 8,2; "
F"; AT 8,17; "E"; AT 9,2; "
F"; AT 9,18; "": AT 10,2; "G"
"": AT 10,17; "H"; AT 11,2; "E"
; AT 11,16; "H"
1520 PRINT INK 2; AT 12,2; "E";
AT 12,16; "E"; AT 13,2; "": AT
13,17; "": AT 14,2; "": AT 14
17; "": AT 15,2; "G"; AT 15,1
6; "H"; AT 16,2; "G"; AT 16,1
5; "H"; AT 17,2; "G"; AT 17
14; "H"
1530 PRINT INK 2; AT 18,2; "
G"; AT 18,13; "H"; AT 19,2; "
": AT 19,13; "
1599 RETURN
1600 FOR Z=2 TO 5: PRINT INK 2; A
T Z,2; "": NEXT
Z
1610 PRINT INK 2; AT 6,2; "
EF"
"": AT 7,2; "": AT 7,19; "": AT 8,2; "
F"
"": AT 8,19; "": AT 9,2; "
": AT 9,9; "EF"; AT 10,2; "
": AT
10,11; "EF"; AT 11,2; "G"

```

1620 PRINT INK 2; AT 12,2; "G"
 ; AT 13,2; "F"; AT 13,18; "H"
 ; AT 14,2; "G"; AT 14,18; "

AT 15,2; "G"; AT 15,15; "HGH"
 ; AT 16,2; "F"; AT 16,15; "
 ; AT 17,2; "F"; AT 17,15; "
 ; AT 18,2; "G"; AT 18,1
 3; "H"; AT 19,2; "G"; AT
 19,13; "

1699 RETURN
 1700 FOR z=2 TO 5: PRINT INK 2; A
 T z,2; "G"; AT z,18; "H": NEXT

z
 1710 PRINT INK 2; AT 6,2; "EF E"
 ; AT 7,2; "F"; AT 7,8;
 ; AT 7,17; "E"; AT 8,2; "G"
 ; AT 8,8; "G"; AT 8,17; "H"; AT 9,8
 ; AT 9,16; "H"; AT 9,17; "H"

1720 PRINT INK 2; AT 10,15; "H"
 ; AT 11,15; "E"; AT 12,16; "E"
 ; AT 13,2; "G"; AT 13,17; "E"; A
 T 14,2; "GH G"; AT 14,18; "E"; AT
 15,2; "G"; AT 15,15; "HG"
 ; AT 16,2; "F"; AT 16,15; "H"

1730 PRINT INK 2; AT 17,2; "G"
 ; AT 17,15; "E"; AT 18,2; "G"
 ; AT 18,13; "H"; AT 19,2; "G"
 ; AT 19,13; "H"

1799 RETURN
 1800 PRINT INK 2; AT 2,2; "G"
 ; AT 2,13; "F"; AT 3,2; "G"
 ; AT 3,13; "E"; AT 4,2; "G"
 ; AT 4,13; "E"; AT 5,2; "G"
 ; AT 5,13; "E"; AT 6,2; "G"
 ; AT 6,13; "E"

1810 PRINT INK 2; AT 7,2; "EF"
 ; AT 7,13; "EF E"; AT 8,2; "G"; A
 T 8,15; "EF E"; AT 9,2; "G"; AT
 10,2; "G"; AT 11,2; "F"; AT
 12,2; "G"; AT 13,2; "G"; AT
 13,11; "HG"; AT 13,19; "H"

1820 PRINT INK 2; AT 14,2; "F"
 ; AT 14,19; "G"; AT 15,2; "G"
 ; AT 16,2; "G"; AT 16,15; "H"
 ; AT 16,18; "H"; AT 16,20; "GH"

1830 FOR z=17 TO 19: PRINT INK 2

; AT z,2; "G"; AT z,18; "H": NE
 XT z

1899 RETURN
 1900 PRINT INK 2; AT 2,2; "G"
 ; AT 2,13; "F"; AT 3,2; "G"
 ; AT 3,13; "E"; AT 4,2; "G"
 ; AT 4,13; "E"; AT 5,2; "G"
 ; AT 5,13; "E"; AT 6,2; "G"
 ; AT 6,13; "E"; AT 7,2; "G"
 ; AT 7,13; "E"

1910 PRINT INK 2; AT 8,2; "F"; AT
 8,15; "E"; AT 9,15; "E"; AT
 10,15; "EFE"; AT 11,18; "G"; AT 1
 2,18; "H"; AT 13,2; "HG"; AT 13
 ,17; "H"; AT 14,2; "H"; AT 14
 ,16; "H"; AT 15,2; "F HG"; A
 T 15,14; "H"; AT 16,2; "G"
 ; AT 16,15; "H"

1920 FOR z=17 TO 19: PRINT INK 2

; AT z,2; "G"; AT z,18; "H": NE
 XT z

1999 RETURN

2000 FOR z=2 TO 5: PRINT INK 2; A
 T z,2; "G"; AT z,18; "H": NEXT

z
 2010 PRINT INK 2; AT 6,2; "F F E"
 ; AT 7,2; "F"; AT 7,8; "EF"
 ; AT 8,2; "F"; AT 8,12; "E"
 ; AT 9,13; "EF"; AT 13,2; "G"
 ; AT 13,13; "HG"; AT 13,18; "H"
 ; AT 13,19; "H"

2020 PRINT INK 2; AT 14,2; "G"
 ; AT 14,13; "GH"; AT 15,2; "G"
 ; AT 15,13; "G"; AT 16,2; "G"
 ; AT 16,13; "E"; AT 17,2; "F"
 ; AT 17,14; "G"; AT 17,14; "G"
 ; AT 18,2; "G"; AT 18,14; "G"
 ; AT 19,2; "G"; AT 19,13; "G"

2099 RETURN
 2100 PRINT INK 2; AT 2,2; "G"
 ; AT 2,13; "F"; AT 3,2; "G"
 ; AT 3,13; "E"; AT 4,2; "G"
 ; AT 4,13; "E"; AT 5,2; "G"
 ; AT 5,13; "E"

; AT 5,13; "H"; AT 6,2; "G"
 ; AT 6,13; "F"; AT 7,2; "G"
 2110 PRINT INK 2; AT 7,2; "FEF"
 ; AT 7,13; "EF"; AT 8,2; "F"; AT
 8,15; "E"; AT 9,15; "EF"; AT 12
 ,11; "HG"; AT 13,2; "G"; AT 13,10;
 ; AT 14,2; "G"; AT 14,14; "H"
 ; AT 15,2; "G"; AT 15,10; "G"
 ; AT 16,2; "G"

2120 FOR z=17 TO 19: PRINT INK 2
 ; AT z,2; "G"; AT z,18; "H": NE
 XT z

2199 RETURN

2200 PRINT INK 2; AT 2,2; "G"
 ; AT 2,13; "F"; AT 3,2; "G"
 ; AT 3,13; "E"; AT 4,2; "G"
 ; AT 4,13; "E"; AT 5,2; "G"
 ; AT 5,14; "E"; AT 6,2; "G"
 ; AT 6,15; "E"; AT 7,2; "G"
 ; AT 7,14; "H"; AT 8,2; "G"
 ; AT 8,14; "H"

2210 PRINT INK 2; AT 9,13; "H"
 ; AT 10,13; "G"; AT 11,13; "G"
 ; AT 12,16; "E"; AT 13,2; "E"
 ; AT 13,17; "G"; AT 14,2; "G"
 ; AT 14,13; "HG H"; AT 15,2; "G"
 ; AT 15,13; "G"; AT 16,2; "G"
 ; AT 16,13; "E"; AT 17,2; "G"
 ; AT 17,14; "G"; AT 18,2; "G"
 ; AT 18,13; "H"; AT 19,2; "G"
 ; AT 19,13; "H"

2220 PRINT INK 2; AT 16,2; "G"
 ; AT 16,13; "E"; AT 17,2; "G"
 ; AT 17,14; "G"; AT 18,2; "G"
 ; AT 18,13; "H"; AT 19,2; "G"
 ; AT 19,13; "H"

2299 RETURN

2300 PRINT INK 2; AT 2,2; "G"
 ; AT 2,13; "F"; AT 3,2; "G"
 ; AT 3,13; "E"; AT 4,2; "G"
 ; AT 4,13; "E"; AT 5,2; "G"
 ; AT 5,13; "E"; AT 6,2; "G"
 ; AT 6,15; "E"; AT 7,2; "G"
 ; AT 7,15; "EFE"; AT 8,2; "G"; AT 8
 ,18; "E"; AT 9,2; "E"; AT 10,2; "G"

; AT 11,2; "G"; AT 12,2; "G"
 ; AT 12,17; "HG"; AT 13,2; "G"
 ; AT 13,17; "G"; AT 14,2; "G"
 ; AT 14,16; "H"; AT 15,2; "G"
 ; AT 15,16; "E"; AT 16,2; "G"
 ; AT 16,13; "HG"; AT 17,2; "G"
 ; AT 17,13; "GH"; AT 18,2; "G"
 ; AT 18,13; "H"; AT 19,2; "G"
 ; AT 19,13; "H"

2320 PRINT INK 2; AT 15,2; "GHG"
 ; AT 15,16; "E"; AT 16,2; "G"
 ; AT 16,13; "HG"; AT 17,2; "G"
 ; AT 17,13; "GH"; AT 18,2; "G"
 ; AT 18,13; "H"; AT 19,2; "G"
 ; AT 19,13; "H"

2399 RETURN

2400 PRINT INK 2; AT 2,2; "G"
 ; AT 2,13; "F"; AT 3,2; "G"
 ; AT 3,13; "E"; AT 4,2; "G"
 ; AT 4,13; "E"; AT 5,2; "G"
 ; AT 5,13; "E"; AT 6,2; "G"
 ; AT 6,13; "E"; AT 7,2; "G"
 ; AT 7,16; "EFE"; AT 8,2; "G"
 ; AT 8,19; "E"; AT 9,2; "G"
 ; AT 9,19; "H"

KRAKATOA

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2410 PRINT INK 2; AT 13,6; "HG"; AT
14,2; "GH"; AT 14,16; "HG"; A
T 15,2; "GH"; AT 15,16; "H"; A
T 16,2; "HG"; AT 16,14; "HG";
AT 17,2; "GH"; AT 17,13; "H
13; "GH"; AT 19,2; "GH"; A
T 19,13; "GH";
2499 RETURN
2500 PRINT INK 2; AT 2,2; "FE
"; AT 2,13; "FE"; AT 3,2; "FE
FEF"; AT 3,13; "EFEFE"; AT 4,2; "
F"; AT 4,18; "E";
2510 FOR z=5 TO 15 STEP 2: PRINT
INK 2; AT z,2; "G"; AT z+1,2; "F"
NEXT z
2520 FOR z=5 TO 15 STEP 2: PRINT
INK 2; AT z,18; "H"; AT z+1,18; "E"
NEXT z
2530 PRINT INK 2; AT 17,2; "G"; AT
17,18; "H"; AT 18,2; "GHGHG"; AT
18,13; "GHGHG"; AT 19,2; "
";

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```

2540 PRINT INK 2; AT 8,10; "HG"; AT
9,9; "HG"; AT 10,8; "HG"; AT
11,8; "E"; AT 12,9; "E"; AT
13,10; "EF";
2545 PRINT INK 3; AT 18,10; "I"
2599 RETURN
2600 PRINT INK 2; AT 8,9; "HG"; A
T 9,8; "HG"; AT 10,7; "HG"; AT 1
0,13; "EG"; AT 11,6; "HG"; AT 11,13
; "HG"; AT 12,5; "HG"; AT 12,13; "
G"; AT 13,4; "HG"; AT 13,14; "
G";
2610 PRINT INK 2; AT 14,3; "HG"; AT
14,14; "HG"; AT 15,2; "HG"; AT
15,15; "HG"; AT 16,2; "HG"; AT
16,14; "HG"; AT 17,2; "HG"; AT
17,14; "HG"; AT 18,2; "HG"; AT 18
,2; "HG"; AT 18,13; "HG"; AT 19,2; "
HG"; AT 19,13; "HG";
2699 RETURN
3000 PLOT 210,48: DRAW INK 7; 0,4

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0: DRAW INK 7; 8,1, -PI: PLOT 218,
48: DRAW INK 7; 0,40
3010 FOR z=40 TO 47: PLOT 208,z:
DRAW INK 7; 12,0: NEXT z
3020 FOR v=36 TO 39: PLOT 211,v:
DRAW INK 7; 6,0: NEXT v
3030 PRINT INK 4; AT 19,24; "ABABA
B"
3040 RETURN
4010 FOR z=0 TO 20: PRINT #0; "

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```

NEXT z: CLS
4030 PRINT INK 4; AT 10,8; "G A M
E O U E R"
4050 PRINT INK 4; AT 21,7; "OTRA P
ARTIDA? (s/n)"
4060 IF INKEY$="s" THEN GO TO 5
4065 IF INKEY$="n" THEN STOP
4070 GO TO 4060
5000 FOR z=0 TO 19: PRINT INK 5;
AT z,0; " "; NEXT z

```

```

5005 FOR z=20 TO 47: PRINT INK 1
; AT z,0; " "; NEXT z
5010 PRINT INK 7; PAPER 5; AT 2,5
; "JK"; AT 4,21; "JK"; AT 3,11; "JK";
INK 0; PAPER 5; AT 18,21; " "; AT
17,22; "0"; AT 18,26; "P"
5020 PRINT PAPER 5; AT 19,12; "E";
PAPER 1; AT 20,
13; "E";

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```

5030 FOR z=28 TO 17 STEP -1: PRI
NT PAPER 5; INK 1; AT 5,z; "AB "
NEXT z
5040 FOR z=0 TO 13: PAUSE 6: PRI
NT PAPER 5; INK 5; AT 5+z-1,17; "
"; PRINT PAPER 5; INK 1; AT 5+z,
17; "AB "; NEXT z
5100 FOR m=0 TO 12
5200 PRINT PAPER 5; AT 18,21-m; "
"; INK 1; AT 18,17-m; "AB "; INK
0; AT 17,22-m; "0"; AT 18,26-m; "P

```

```

5210 PRINT PAPER 5; AT 19,12-m; "E
"; PAPER 1; AT
20,13-m; "E";
5220 PAUSE 7: NEXT m
5300 PAUSE 10: BORDER 0: PAPER 0
: CLS : GO TO 4050
7000 LET vi=vi-1: PRINT INK 6; B
RIGHT 1; AT b,a+1; "LM"; AT b+1,a+1
; "NO": BEEP .1,00.4: BEEP .01,17
; BEEP .01,0: PRINT AT b,a; " ";
AT b+1,a; " "; LET c=530: LET x=
7: LET y=0: GO SUB 600: LET a=9:
LET b=14
7001 PLOT 215,pl: DRAW OVER 1; 8,
0: LET pl=135
7002 PRINT INK 3; AT 19,vi2; "AB":
LET vi2=vi2+2: GO TO 110
8000 FOR z=2 TO 7: PRINT INK 6;
PAPER 2; AT z,23; " "; AT z,30; " ";
NEXT z
8010 FOR z=24 TO 29: PRINT INK 6
; PAPER 2; AT 1,z; " "; AT 8,z; " ";

```

```

NEXT z
8020 PRINT INK 6; PAPER 2; AT 1,2
3; " "; AT 1,30; " "; AT 8,23; " "; AT
8,30; " ";
8030 FOR z=2 TO 7: PRINT INK 5; A
T z,24; " "; AT z,28; " "; NEXT
z
8040 PRINT INK 0; PAPER 5; AT 5,2
6; "H"; AT 5,28; "G"; AT 6,25; "H"; A
T 6,28; "G"; AT 7,24; "H"; AT 7,2
8; " "; PRINT INK 7; PAPER 5; AT
3,25; "JK"
8050 FOR z=2 TO 4: PRINT INK 5; A
T z,27; " "; NEXT z
8060 RETURN
9000 RESTORE 9010: FOR a=144 TO
160: FOR b=0 TO 7: READ c: POKE
USR (CHR$ a)+b,c: NEXT b
9010 DATA 0,0,0,3,13,25,127,63,7
,15,30,254,95,255,254,252,224,24
0,120,127,250,255,127,63,0,0,0,1
92,176,152,254,252

```

```

9020 DATA 255,127,63,31,15,7,3,1
,255,254,252,248,240,224,192,128
,128,192,224,240,248,252,254,255
,1,3,7,15,31,63,127,255
9030 DATA 24,24,60,90,90,24,36,3
6,25,63,111,121,127,239,127,56,2
40,252,190,94,168,222,232,64
9040 DATA 240,138,68,34,145,73,2
3,14,82,35,84,202,148,233,135,47
,21,85,84,168,178,200,128,236,14
6,73,58,82,137,71,0,0
9050 DATA 1,3,6,12,60,126,255,25
5,12,16,32,34,60,32,32,32
9051 NEXT a
9055 RETURN
9060 CLS: PRINT INK 7; AT 8,7; "E
LIJA LA VELOCIDAD"; AT 13,10; "NOR
MAL...1"; AT 15,10; "RAPIDA...2"
9070 IF INKEY$="1" THEN LET ve=5
: CLS: RETURN
9080 IF INKEY$="2" THEN LET ve=0
: CLS: RETURN

```

9090 GO TO 9070

A Guitarra

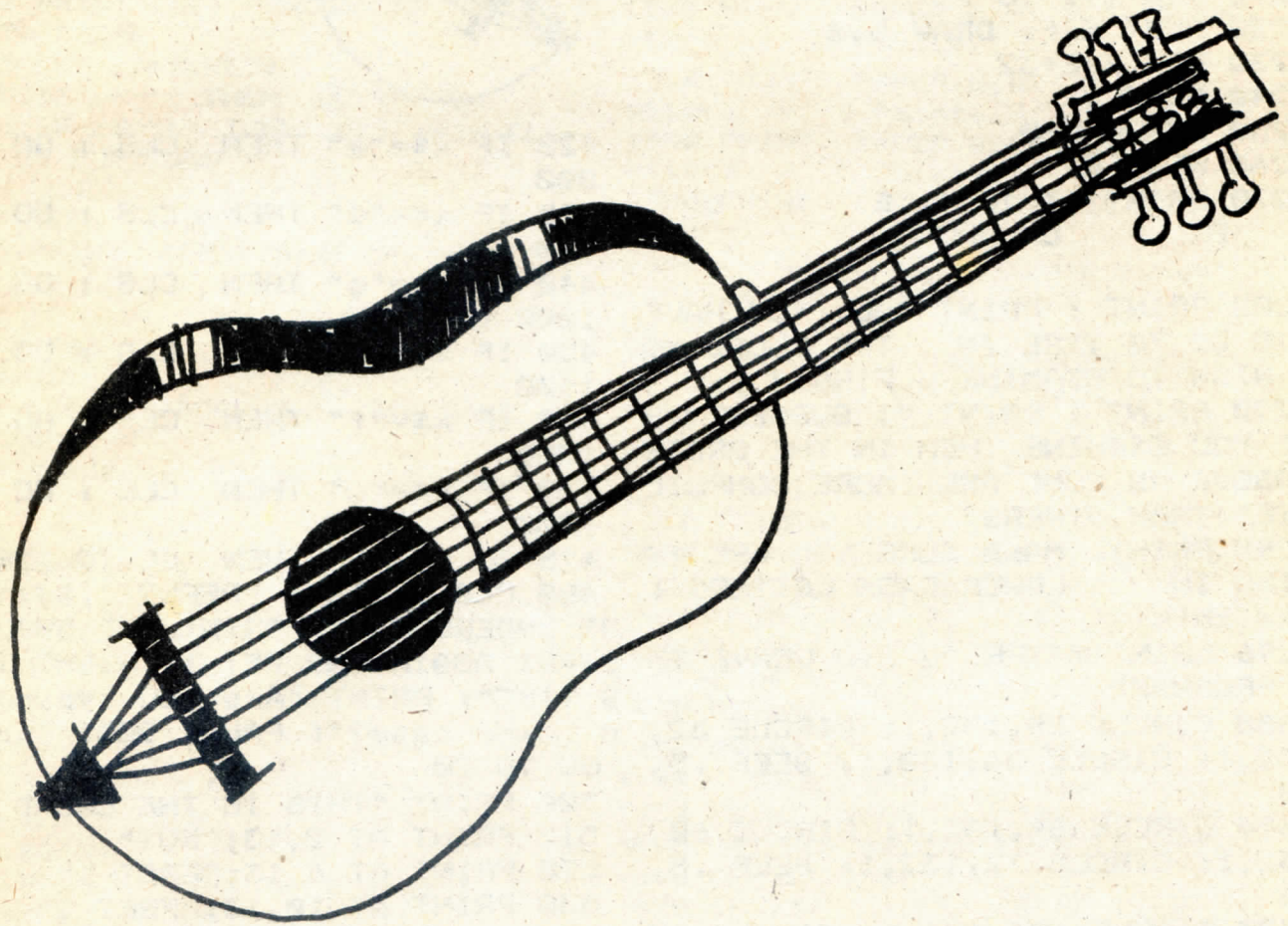
Conforme anunciamos na página de entrada do suplemento «Jogos para Computador», verificou-se um tremendo lapso na publicação (no n.º de Dezembro/86) deste jogo, do que pedimos milhões de desculpas.

Leitores amigos solicitaram-nos que fosse novamente publicado e, agora, na íntegra, o que nos apressamos a fazer com todo o gosto.

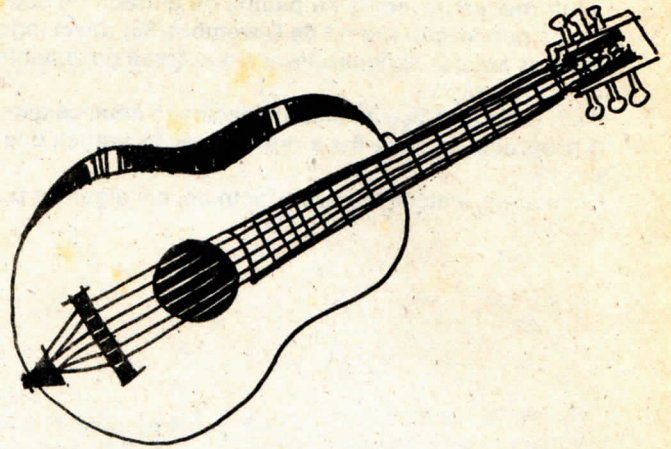
É um programa especialmente dedicado àqueles que aspiram a dedilhar uma guitarra.

O programa fornece-lhe a representação gráfica dos trastos e da posição dos dedos, competindo-lhe a si escolher o acorde.

Chamamos a atenção para o facto de, em algumas posições, o posicionamento dos dedos ser aproximado.



```
15 CLS
20 PRINT "THESE ARE THE CHORDS WE WILL LOOK AT IN THIS PROGRAM"
30 PLOT 24,144: DRAW 20,0: DRAW 0,-40
40 PLOT 56,144: DRAW 20,0: DRAW 0,-40
50 PLOT 88,144: DRAW 20,0: DRAW 0,-40
60 PLOT 120,144: DRAW 20,0: DRAW 0,-40
70 PLOT 152,144: DRAW 20,0: DRAW 0,-40
80 PLOT 184,144: DRAW 20,0: DRAW 0,-40
90 PLOT 216,144: DRAW 20,0: DRAW 0,-40
100 PLOT 24,104: DRAW 0,40
110 PLOT 56,104: DRAW 0,40
120 PLOT 88,104: DRAW 0,40
130 PLOT 120,104: DRAW 0,40
140 PLOT 152,104: DRAW 0,40
150 PLOT 184,104: DRAW 0,40
160 PLOT 216,104: DRAW 0,40
170 LET A=28
171 LET C=A
175 FOR Z=1 TO 35
180 PLOT A,144: DRAW 0,-40
190 LET A=A+4
193 IF A=44 THEN LET A=A+12
194 IF A=76 THEN LET A=A+12
```



```

195 IF A=108 THEN LET A=A+12
196 IF A=140 THEN LET A=A+12
197 IF A=172 THEN LET A=A+12
198 IF A=204 THEN LET A=A+12
200 NEXT Z
203 LET F=136
205 FOR H=1 TO 5
210 LET E=24: LET G=20
215 FOR Y=1 TO 7
220 PLOT E,F: DRAW G,0
230 LET E=E+32
240 NEXT Y
250 LET F=F-8
260 NEXT H
270 PRINT AT 10,4;"E A D
G B F C"

```

```

280 PRINT : PRINT "ALL YOU HAVE
TO DO IS TYPE IN THE CHORD YO
U WISH TO EXAMINE FIRST"

```

```

290 PRINT : PRINT "I SUGGEST TH
AT YOU EXAMINE THEM IN THE ORDER
ABOVE AS SOME ARE MORE COMPLIC
ATED THAN OTHERS"

```

```

295 PRINT "MAKE SURE YOU ARE TY
PING IN LOWER CASE LETTERS(1
ike this)"

```

```

296 PRINT "TYPE 'q' TO LEAVE TH
E PROGRAM"

```

```

300 CIRCLE 28,132,1: CIRCLE 32,
132,1: CIRCLE 36,140,1: BEEP .5,
-8

```

```

310 CIRCLE 64,132,1: CIRCLE 68,
132,1: CIRCLE 72,132,1: BEEP .5,
-3

```

```

320 CIRCLE 104,124,1: CIRCLE 10
0,132,1: CIRCLE 108,132,1: BEEP
.5,-10

```

```

330 CIRCLE 120,124,1: CIRCLE 12
4,132,1: CIRCLE 140,124,1: BEEP
.5,-5

```

```

340 CIRCLE 160,116,1: CIRCLE 16
4,116,1: CIRCLE 168,116,1: CIRCL
E 172,132,1: BEEP .5,-1

```

```

350 CIRCLE 192,124,1: CIRCLE 19
6,132,1: CIRCLE 200,140,1: CIRCL
E 204,140,1: BEEP .5,-7

```

```

360 CIRCLE 220,124,1: CIRCLE 22
4,132,1: CIRCLE 232,140,1: BEEP
.5,0

```

```

400 INPUT "e,a,d,g,b,f,c OR q ?
";X$

```

```

410 IF X$="e" THEN CLS : GO TO
500

```

```

420 IF X$="a" THEN CLS : GO TO
800

```

```

430 IF X$="d" THEN CLS : GO TO
900

```

```

440 IF X$="g" THEN CLS : GO TO
1000

```

```

450 IF X$="b" THEN CLS : GO TO
1100

```

```

460 IF X$="f" THEN CLS : GO TO
1200

```

```

470 IF X$="c" THEN CLS : GO TO
1300

```

```

475 IF X$="q" THEN GO TO 1500

```

```

480 CLS : PRINT "REPLY ";X$;" N
OT UNDERSTOOD": PRINT "WE SHALL
START AGAIN AND GET IT RIGHT THI
S TIME": PRINT "Are you typing i
n lower case?": PAUSE 200: CLS :
GO TO 20

```

```

500 PRINT "THIS IS THE CHORD E"

```

```

510 PRINT AT 2,13;"NUT"

```

```

520 PRINT AT 6,13;"FRET 1"

```

```

530 PRINT AT 10,13;"FRET 2"

```

```

540 PRINT AT 14,13;"FRET 3"

```

```

550 PRINT AT 18,13;"FRET 4"

```

```

555 PLOT 12,153: DRAW 80,0

```

```

560 LET X=12: LET Y=17

```

```

565 FOR a=1 TO 6

```

```

570 PLOT x,y: DRAW 0,136

```

```

580 LET x=x+16

```

```

590 NEXT a

```

```

600 LET x=12: LET y=152

```

```

610 FOR b=1 TO 5

```

```

620 PLOT x,y: DRAW 80,0

```

```

630 LET y=y-32

```

```

640 NEXT b

```

```

650 PRINT AT 21,1;"E A D G B E"

```

```

660 PRINT AT 1,1;"6 5 4 3 2 1"

```

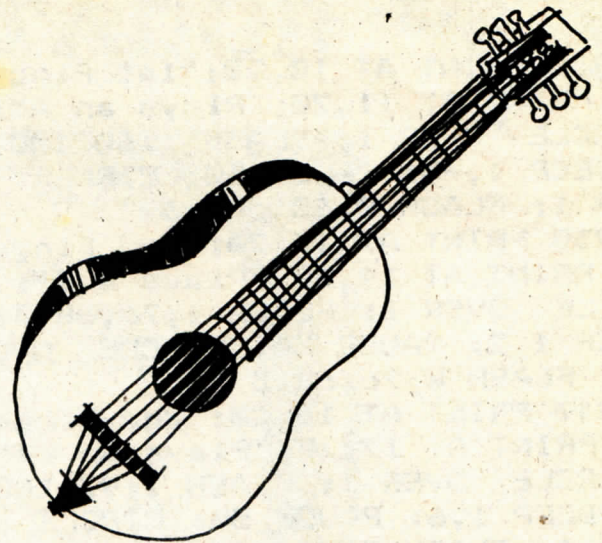
```

661 IF X$="a" THEN RETURN
662 IF X$="d" THEN RETURN
663 IF X$="g" THEN RETURN
664 IF X$="b" THEN RETURN

```

```

665 IF x#="f" THEN RETURN
667 IF x#="c" THEN RETURN
670 CIRCLE 28,100,3: BEEP .5,-1
3: CIRCLE 44,100,3: BEEP .5,-8:
CIRCLE 60,132,3: BEEP .5,-4
680 LET x=160: LET y=152
690 FOR a=1 TO 5
700 PLOT x,y: DRAW 95,0
710 LET y=y-5
720 NEXT a
725 PLOT 156,0: DRAW 0,175
730 PRINT AT 8,20;"NOTATION"
740 PRINT AT 10,20;"2nd Finger"
: PRINT AT 11,20;"Plays a B"
750 CIRCLE FLASH 1; OVER 1;28,
100,3: BEEP 1,-13: PAUSE 50: CIRC
LE OVER 1; FLASH 0;28,100,3
760 PRINT AT 13,20;"3rd Finger"
: PRINT AT 14,20;"Plays an E"
770 CIRCLE FLASH 1; OVER 1;44,
100,3: BEEP 1,-8: PAUSE 50: CIRC
LE OVER 1; FLASH 0;44,100,3
780 PRINT AT 16,20;"1st Finger"
: PRINT AT 17,20;"Plays a G)"
790 CIRCLE FLASH 1; OVER 1;60,
132,3: BEEP 1,-4: PAUSE 50: CIRC
LE OVER 1; FLASH 0;60,132,3
795 CIRCLE 175,142,2: CIRCLE 19
2,149,2: CIRCLE 208,137,2
796 PRINT AT 6,22;"B E G)": PRI
NT AT 4,27;")"
799 GO TO 400
800 CLS : GO SUB 510
    
```



```

805 PRINT AT 0,0;"THIS IS THE C
HORD A"
810 CIRCLE 44,100,3: BEEP .5,-8
: CIRCLE 60,100,3: BEEP .5,-3: C
IRCLE 76,100,3: BEEP .5,1
820 PRINT AT 10,20;"2nd Finger"
: PRINT AT 11,20;"Plays an E"
830 CIRCLE FLASH 1; OVER 1;44,
100,3: BEEP 1,-8: PAUSE 50: CIRC
LE OVER 1; FLASH 0;44,100,3
840 PRINT AT 13,20;"1st Finger"
: PRINT AT 14,20;"Plays an A"
850 CIRCLE FLASH 1; OVER 1;60,
100,3: BEEP 1,-3: PAUSE 50: CIRC
LE OVER 1; FLASH 0;60,100,3
860 PRINT AT 16,20;"3rd Finger"
: PRINT AT 17,20;"Plays a C)"
870 CIRCLE FLASH 1; OVER 1;76,
100,3: BEEP 1,1: PAUSE 50: CIRC
LE OVER 1; FLASH 0;76,100,3
880 PLOT 156,0: DRAW 0,175
890 LET x=160: LET y=152: FOR a
=1 TO 5: PLOT x,y: DRAW 95,0: LE
T y=y-5: NEXT a
892 CIRCLE 172,132,2: CIRCLE 18
8,139,2: CIRCLE 204,144,2: PRINT
AT 3,26;")"
895 PRINT AT 7,21;"E A C)"
899 GO TO 400
900 CLS : GO SUB 510
905 PRINT AT 0,0;"THIS IS THE C
HORD D"
910 CIRCLE 60,100,3: BEEP .5,-3
: CIRCLE 76,68,3: BEEP .5,2: CIRC
LE 92,100,3: BEEP .5,6
    
```

ACORDE D					
6	5	4	3	2	1
C	A	D	G	B	E

Trasto 1	A D F#
Trasto 2	1.º dedo toca um
Trasto 3	2.º dedo toca um
Trasto 4	3.º dedo toca um

A GUITARRA

```

920 PRINT AT 10,20;"1st Finger"
: PRINT AT 11,20;"Plays an A": C
IRCLE OVER 1; FLASH 1;60,100,3:
BEEP 1,-3: PAUSE 50: CIRCLE OV
ER 1; FLASH 0;60,100,3
930 PRINT AT 13,20;"3rd Finger"
: PRINT AT 14,20;"Plays a D": CI
RCLE OVER 1; FLASH 1;76,68,3: B
EEP 1,2: PAUSE 50: CIRCLE OVER
1; FLASH 0;76,68,3
940 PRINT AT 16,20;"2nd Finger"
: PRINT AT 17,20;"Plays an F)":
CIRCLE OVER 1; FLASH 1;92,100,3
: BEEP 1,6: PAUSE 50: CIRCLE OV
ER 1, FLASH 0;92,100,3
950 PLOT 156,0: DRAW 0,175
960 LET x=160: LET y=152: FOR a
=1 TO 5: PLOT x,y: DRAW 95,0: LE
T y=y-5: NEXT a
970 CIRCLE 172,139,2: CIRCLE 18
8,147,2: CIRCLE 204,152,2: PRINT
AT 2,26;")"
980 PRINT AT 7,21;"A D F)"
990 GO TO 400
1000 CLS : GO SUB 510
1010 PRINT AT 0,0;"THIS IS THE C
HORD G"
1020 CIRCLE 12,68,3: BEEP .5,-17
: CIRCLE 28,100,3: BEEP .5,-13:
CIRCLE 92,68,3: BEEP .5,7
1030 PRINT AT 10,20;"2nd Finger"
: PRINT AT 11,20;"Plays a G": CI
RCLE OVER 1; FLASH 1;12,68,3: B
EEP 1,-17: PAUSE 50: CIRCLE OVE
R 1; FLASH 0;12,68,3
1040 PRINT AT 13,20;"1st Finger"
: PRINT AT 14,20;"Plays a B": CI
RCLE OVER 1; FLASH 1;28,100,3:
BEEP 1,-13: PAUSE 50: CIRCLE OV
ER 1; FLASH 0;28,100,3
1050 PRINT AT 16,20;"3rd Finger"
: PRINT AT 17,20;"Plays a G": CI
RCLE OVER 1; FLASH 1;92,68,3: B
EEP 1,7: PAUSE 50: CIRCLE OVER
1; FLASH 0;92,68,3
1060 PLOT 156,0: DRAW 0,175
1070 LET x=160: LET y=152: FOR a
=1 TO 5: PLOT x,y: DRAW 95,0: LE
T y=y-5: NEXT a
1080 CIRCLE 172,137,2: CIRCLE 18
8,142,2: CIRCLE 204,154,2
1090 PRINT AT 7,21;"G B G"
1095 GO TO 400
1100 CLS : GO SUB 510
1110 PRINT AT 0,0;"THIS IS THE C
HORD B"
1120 CIRCLE 44,36,3: BEEP .5,-6:
CIRCLE 60,36,3: BEEP .5,-1: CIR
CLE 76,36,3: BEEP .5,3: CIRCLE 9
2,100,3: BEEP .5,6
1130 PRINT AT 10,20;"2nd Finger"
: PRINT AT 11,20;"Plays an F)":
CIRCLE OVER 1; FLASH 1;44,36,3:
BEEP 1,-6: PAUSE 50: CIRCLE OV
ER 1; FLASH 0;44,36,3
1140 PRINT AT 13,20;"3rd Finger"
: PRINT AT 14,20;"Plays a B": CI
RCLE OVER 1; FLASH 1;60,36,3: B
EEP 1,-1: PAUSE 50: CIRCLE OVER
1; FLASH 0;60,36,3
1145 PRINT AT 17,20;"4th Finger"
: PRINT AT 18,20;"Plays a D)": C
IRCLE OVER 1; FLASH 1;76,36,3:
BEEP 1,3: PAUSE 50: CIRCLE OVER
1; FLASH 0;76,36,3
1150 PRINT AT 20,20;"1st Finger"
: PRINT AT 21,20;"Plays an F)":
CIRCLE OVER 1; FLASH 1;92,100,3
: BEEP 1,6: PAUSE 50: CIRCLE OV
ER 1; FLASH 0;92,100,3
1155 PLOT 156,0: DRAW 0,175
1160 LET x=160: LET y=152: FOR n
=1 TO 5: PLOT x,y: DRAW 95,0: LE
T y=y-5: NEXT n
1170 CIRCLE 172,134,2: CIRCLE 19
6,142,2: CIRCLE 212,147,2: CIRCL
E 232,152,2
1180 PRINT AT 7,21;"F) B D) F)"
1190 GO TO 400
1200 CLS : GO SUB 510
1210 PRINT AT 0,0;"THIS IS THE C
HORD F"
1220 CIRCLE 44,68,3: BEEP .5,-7:
CIRCLE 60,100,3: BEEP .5,-3: CI
RCLE 76,132,3: BEEP .5,0: CIRCLE
92,132,3: BEEP .5,5
1230 PRINT AT 10,20;"3rd Finger"
: PRINT AT 11,20;"Plays an F": C
IRCLE OVER 1; FLASH 1;44,68,3:
BEEP 1,-7: PAUSE 50: CIRCLE OVE
R 1; FLASH 0;44,68,3
1240 PRINT AT 13,20;"2nd Finger"
: PRINT AT 14,20;"Plays an A": C
IRCLE OVER 1; FLASH 1;60,100,3:
BEEP 1,-3: PAUSE 50: CIRCLE OV
5 GO TO 200
10 PAPER 7: BORDER 6: INK 6: C
LS

```